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UNITED STATES DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.

HENRY S. GRAVES, Forester.

July Field Program, 1911.

This program of field work and assignments in the Forest Service is issued quarterly on the 15th day of July, October, January, and April, and is for the exclusive use of members of the service and cooperating bureaus. The names of members whose assignments are not yet fixed and reference to projects for which plans have not been matured are necessarily omitted. All orders and other instructions printed in the Field Program will apply to all districts.

It is requested that the members of the Forest Service cooperate in making this program complete and accurate.

Unless the address of a member is given in this program or is definitely known, he should be addressed in care of the Forest Service, Washington, D. C.

OFFICE OF THE FORESTER.

HENRY S. GRAVES, Forester.

ALBERT F. POTTER, Associate Forester.

HERBERT A. SMITH, editor.

FINDLEY BURNS, in charge of technical review.

GEORGE B. SUDWORTH, dendrologist.

CLAYTON D. MELL, assistant dendrologist.

W. D. BRUSH, assistant in dendrological laboratory.

H. P. BROWN, assistant in dendrological laboratory.

G. E. WHARTON, compilation of forest distribution data.

W. H. LAMB, scientific assistant in forest distribution.

EUGENE S. BRUCE, expert lumberman.

D. D. BRONSON, general inspector.

ACCOUNTS.

Division of Accounts and Disbursements (Forest Service Branch).

M. E. FAGAN, Chief of Office of Accounts; E. A. MELZAR, assistant chief.

OPERATION.

JAMES B. ADAMS, Assistant Forester, in charge; FRANKLIN W. REED, forest inspector; GEORGE G. ANDERSON, assistant in office methods.

GEOGRAPHY.—FRED G. PLUMMER, chief.

ATLAS.—G. B. BRUCE.

DRAFTING.—C. A. KOLB.

PHOTOGRAPHY.—A. G. VARELA.

MAINTENANCE.—GEORGE A. BENTLEY, chief.

SILVICULTURE.

W. B. GREELEY, Assistant Forester, in charge (in the field); EARLE H. CLAPP, forest inspector.

STATE COOPERATION.—J. G. PETERS, chief (in the field); J. H. FOSTER, assistant chief.

NORTHEAST.—Inspection of State cooperative fire protection work under the Weeks law—J. G. Peters, Washington, D. C.

SOUTHERN STATES.—Study of Appalachian species, with special reference to yield of second-growth stands—W. W. Ashe, Washington, D. C.

Collaborators, State cooperative fire protection under the Weeks law—E. M. Griffith, State forester, Madison, Wis.; E. C. Hirst, State forester, Concord, N. H.; A. F. Hawes, State forester, Burlington, Vt.; William T. Cox, State forester, St. Paul, Minn.; Frank E. Mace, land agent and forest commissioner, Augusta, Me.; C. P. Wilber, State fire warden, Trenton, N. J.; F. W. Besley, State forester, Baltimore, Md.; S. N. Spring, State forester, New Haven, Conn.

SILVICS.—RAPHAEL ZON, chief; S. T. DANA, assistant chief (in the field).

Forest regions of the United States with special reference to the laws of their distribution—Raphael Zon.

Fundamental laws of tree growth—Raphael Zon.

Inspection of fieldwork and establishment of forest experiment stations—Raphael Zon and S. T. Dana.

Comparative rapidity of growth of forest trees—W. B. Barrows.

Results of seeding and planting in the East—C. R. Tillotson, W. B. Barrows, and A. W. Williamson.

Seed testing and storage experiments—C. R. Tillotson.

Study of beech, birch, and maple in the Northeast—E. H. Frothingham.

Remeasurement of permanent sample plots—W. D. Sterrett.

Basket-willow investigations—G. N. Lamb.

COMPUTING.—W. B. BARROWS.

LIBRARY.—MISS H. E. STOCKBRIDGE.

FOREST MANAGEMENT IN THE EAST.—L. S. MURPHY, acting in charge.

Examination of private forest lands.—A. W. Williamson, Washington, D. C.

NORTHEAST.—Preparation of report on red spruce in second-growth stands.—L. S. Murphy, Washington, D. C.

GRAZING.

A. F. POTTER, Associate Forester, in charge; L. F. KNEIPP, assistant forester.

Forage investigations; compilation of data.—F. V. Coville, botanist, Bureau of Plant Industry, in charge, Washington, D. C.; investigation of methods of range control and restoration of overgrazed ranges, James T. Jardine, inspector of grazing, Ogden, Utah; Arthur T. Sampson and William A. Dayton, plant ecologists, Wallowa, Oreg. (detailed to Bureau of Plant Industry under instructions of F. V. Coville, botanist).

Range reconnaissance.—District 1—Deerlodge National Forest.—Charles E. Fleming, Anaconda, Mont. District 2—Medicine Bow Natural Forest.—Lynn H. Douglas, Laramie, Wyo. District 3—Coconino National Forest.—Robert R. Hill, Flagstaff, Ariz. District 4—Targhee National Forest.—Alfred E. Aldous, St. Anthony, Idaho.

LANDS.

JAMES B. ADAMS, Assistant Forester, in charge; O. C. MERRILL, chief engineer; F. H. FOWLER, engineer.

OCCUPANCY.—CHARLES H. SQUIRE, in charge.

CLAIMS.—J. I. PARKER, in charge.

PRODUCTS.

MCGARVEY CLINE, in charge, Madison Wis.

FOREST PRODUCTS LABORATORY.—(In cooperation with the University of Wisconsin, Madison, Wis.) MCGARVEY CLINE, director; H. S. BRISTOL, assistant director; HOWARD F. WEISS, assistant director.

MAINTENANCE.—WM. H. KEMPFFER, in charge.

CHEMISTRY AND DISTILLATION.—L. F. HAWLEY, in charge.

The classification of authentic creosotes according to their chemical and physical properties.—E. Bateman.

Study of the production of ethyl alcohol from wood waste.—F. W. Kressmann.

The investigation of specifications for gum terpentine.—A. W. Schorger.

Experiments to determine the penetrance of caustic soda solution into aspen.—F. W. Kressmann.

Standardization of commercial ground-wood pulp samples.—E. Bateman.

Refining and grading of wood terpentine.—L. F. Hawley.

Experiments in distillation of wood.—L. F. Hawley; assistant, R. C. Palmer.

Experiments in distillation of hardwood.—L. F. Hawley; assistant, R. C. Palmer.

ENGINEERING.—ROLF THIELEN and A. L. HEIM, in charge.

Study of the modern sawmill.—Rolf Thelen.

Study of the use of wood in gas produceers.—C. T. Barnum.

PULP AND PAPER.—H. E. SURFACE, in charge.

Experiments to determine the suitability of jack pine and tamarack for the production of chemical pulp.—H. E. Surface.

Experiments to determine the suitability of mill waste from lumber mills of the Madera Co. (Ltd.), Madera, Chihuahua, Mexico, for the production of chemical pulp.—H. E. Surface.

Experimental study of the fundamental variable cooking conditions in the soda process.—H. E. Surface.

TIMBER PHYSICS.—H. D. Tiemann, in charge.

Construction of an experimental dry kiln at Cairo, Ill., in cooperation with the Pioneer Pole & Shaft Co.—H. D. Tiemann; assistant, Charles Leigh.

The preparation of microscopic slides of the principal commercial woods in the United States.—Miss Eloise Gerry.

Preparation of photo-micrographs of American woods.—Simon Kirsch.

The analytical study of the artificial methods of drying wood in an experimental cylinder.—H. D. Tiemann; assistant, Frederick Dunlap.

TIMBER TESTS.—J. A. NEWLIN, in charge.

Standard tests on oak and ash from the Ozark National Forest.—T. C. R. Wilson, assistant, T. Lyons.

Strength tests on cross-arms, in cooperation with the American Cross-Arms Co. and the John L. Roper Lumber Co.—J. A. Newlin.

WOOD PRESERVATION.—F. M. BOND, in charge.

Fungicidal properties of coal-tar creosote fractions.—C. H. Teesdale.

The efficiency of various fractions of coal-tar creosote in protecting southern yellow pine from marine borers.—C. H. Teesdale.

Service tests on red oak and maple crossties in cooperation with the Chicago Milwaukee & St. Paul Railway Co. to determine the relative efficiency of standard preservatives and processes.—F. M. Bond.

The relative resistance of woods to injection with creosote.—C. H. Teesdale.

Standard tests on the chemical, physical, fungicidal, and inflammable properties of various wood preservatives.—L. Witt.

Experiments on mechanical operative features of pressure wood-preserving; plants.—E. W. Peters.

The preservative treatment of jack pine for posts, poles, etc.—F. M. Bond.

WAUSAU LABORATORY.—J. H. THICKENS, in charge. *

Experiments to determine the suitability of jack pine and eastern hemlock for the manufacture of ground-wood pulp.—J. H. Thickens and G. H. McNaughton, Wausau, Wis.

PATHOLOGY (in cooperation with the Bureau of Plant Industry).—C. J. HUMPHREY, in charge.

Toxicity of preservatives with pure cultures.—C. J. Humphrey.

Rate of decay of wood and the efficiency of various wood preservatives (fungus pit tests).—C. J. Humphrey.

Moisture per cents at various points in posts; also the effect of beveling the tops of posts.—M. C. Jensen.

WOOD UTILIZATION.—H. S. SACKETT, in charge, Fisher Building, Chicago, Ill. [The figures in the studies below indicate the number of the project.]

Collection of wholesale lumber prices.—C. F. Hatch, Fisher Building, Chicago, Ill.

Study of woods which may be used as substitutes for the southern junipers in the manufactures of lead pencils (14).—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the woods which may be used in the manufacture of bobbins and shuttles (16).—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of the methods of hickory manufacture and utilization (21).—C. F. Hatch, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Louisiana (28).—Hu Maxwell, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Missouri (29).—C. F. Hatch, Fisher Building, Chicago, Ill.

Studies of the wood-using industries of Michigan (30).—J. C. Nellis, Fisher Building, Chicago, Ill.

Study of the wood-using industries of Arkansas (31).—John T. Harris, Fisher Building, Chicago, Ill.

Study of the effect of freight rates on the disposition of low-grade lumber.—H. S. Sackett, Fisher Building, Chicago, Ill.

Study of hardwood inspection rules.—John T. Harris, Fisher Building, Chicago, Ill.

Investigation of shipping weights, in the log, of various hardwoods.—C. W. Gould, Fisher Building, Chicago, Ill.

Study of markets for products of wood distillation.—John T. Harris, Fisher Building, Chicago, Ill.

Investigation of the markets and use of osage orange with reference to its available supply.—Hu Maxwell, Fisher Building, Chicago, Ill.

WASHINGTON OFFICE.—O. T. SWAN, in charge.

Preparation of the annual statistical reports on the forest products of the United States in cooperation with the Bureau of the Census.—O. T. Swan and A. H. Pierson.

Inspection of the treated fence posts set in cooperation with the Maryland Agricultural College in 1909.—O. T. Swan.

Testing and improving experimental types of pole-treating plants in cooperation with the Public Service Corporation of New Jersey.—O. T. Swan.

The utilization of sawmill waste by cooperation with wood-using industries.—R. E. Simmons.

Study of the wood-using industries of New Hampshire in cooperation with the State.—R. E. Simmons.

Investigation of lumber waste in building scaffolding and the introduction of new methods.—O. T. Swan.

ACQUISITION OF LAND UNDER THE WEEKS LAW.

WM. L. HALL, Assistant Forester, in charge, Washington, D. C.; CLYDE LEAVITT, forest inspector.

Examination of lands in the White Mountains.—A. K. Chittenden, forest inspector; K. W. Woodward and E. D. Fletcher, forest examiners; D. W. Martin, forest assistant, and party.

Examination of lands in Virginia and West Virginia.—R. C. Bryant and C. D. Cushing, experts; E. D. Clark, forest assistant, and party.

Examination of lands in North Carolina.—D. W. Adams, lumberman; R. Clifford Hall, forest assistant, and party.

Examination of land in South Carolina and Georgia.—W. W. Ashe and Verne Rhoades, forest examiners, and party.

DISTRICT 1.

Montana, northeastern Washington, northern Idaho, northwestern South Dakota, northern Michigan, northern Minnesota, and southwestern North Dakota. Office, Hammond Block, Missoula, Mont.

F. A. SILCOX, district forester; E. W. KRAMER, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. C. HENDERSON, assistant to the solicitor, in charge; HAROLD H. CLARKE, assistant to the solicitor.

ACCOUNTS.—JOHN A. URBANOWICZ, district fiscal agent.

MAINTENANCE.—R. J. MOORE.

OPERATION.—J. F. PRESTON, assistant district forester.

SILVICULTURE.—R. Y. STUART, assistant district forester.

TIMBER SALES, assistant district foresters in silviculture; Austin Cary, forest expert.

MONTANA.—Reconnaissance, Deerlodge National Forest—J. S. Baird, lumberman, in charge, Anaconda.

PLANTING, H. H. Farquhar, forest assistant, in charge.

SILVICS, F. I. Rockwell, forest assistant, in charge.

Yield tables, lodgepole stands.—C. N. Whitney, Anaconda, Mont.

Yield tables, white-pine stands (compilation of data).—F. I. Rockwell, Missoula, Mont.

Preliminary plans for the establishment of a district experiment station.—F. I. Rockwell, Missoula, Mont.

Cooperation, Bureau of Entomology.

Location of insect-infested timber and determination of methods of local control.—Josef Brunner, field agent, Bureau of Entomology, Columbia Falls, Mont.

GRAZING.—C. H. ADAMS, assistant district forester.

LANDS.—R. H. RUTLEDGE, assistant district forester; JOHN D. JONES, assistant.

PRODUCTS.—P. R. HICKS, engineer in wood preservation.

Timber tests.—Collection of material for tests on lodgepole pine telephone poles in cooperation with district 2.

Wood preservation.—Experimental operation of a pole-treating plant in cooperation with the Anaconda Copper Mining Co. for the preservative treatment of lodgepole-pine poles.

Preparation of report showing location of creosoted ties and mine timbers treated in cooperation with Anaconda Copper Mining Co.

Preparation of first inspection report on the treated mine timbers, in the Bunker Hill and Sullivan and Hercules mines at Kellogg and Burke, Idaho.

Study of western larch as a wood paving material.

Wood utilization.—Study of modern milling methods.

Study on the closer utilization of western larch butts.

Study of kiln-drying of western larch.

NATIONAL FORESTS.

IDAHO.

Beaverhead.—See Montana.

Clearwater.—CHARLES A. FISHER, forest supervisor, Orofino (WU-Am); W. B. Willey, forest assistant.

Coeur d'Alene.—ROSCOE HAINES, acting forest supervisor, Wallace (WU-Am); W. W. Morris and Donald R. Bruce, forest assistants; C. H. Gregory, lumberman.

Kaniksu.—See Washington.

Nezperce.—GEORGE V. RING, forest supervisor, Grangeville (WU-Am); J. Arthur Brown, deputy forest supervisor.

Pend Oreille.—J. E. BARTON, forest supervisor, Sandpoint (WU-Am, N, W); Charles F. Howell, deputy forest supervisor; James R. Gillis, forest assistant.

Selway.—FRANK A. FENN, forest supervisor, Kooskia (WU-N); Edward C. Thenon, deputy forest supervisor.

St. Joe.—THOMAS C. SPAULDING, forest supervisor, St. Maries (Continental-WF); Edward A. Holcomb, deputy forest supervisor; Donald R. Brewster, forest assistant.

MICHIGAN.

Marquette. }
Michigan. } —W. B. PIPER, forest supervisor, Au Sable (WU-Am).

MINNESOTA.

Minnesota.—G. E. MARSHALL, forest supervisor, Cass Lake (WU-Am, GN); J. St. J. Benedict, forest assistant.

Superior.—J. A. FITZWATER, forest supervisor, Ely (WU-GN).

MONTANA.

Absaroka.—V. GIFFORD LANTRY, forest supervisor, Livingston (WU-Am, N); John M. Bedford, forest assistant.

Beartooth.—GLEN A. SMITH, forest supervisor, Billings (WU-Am, N).

Beaverhead.—C. K. WYMAN, forest supervisor, Dillon (WU-Am); George E. Martin, deputy forest supervisor; Charles R. Clark, forest assistant.

Bitterroot.—W. W. WHITE, forest supervisor, Missoula (WU-Am, N); M. N. Stickney, deputy forest supervisor; Abbott B. Silva, forest assistant.

Blackfeet.—R. P. McLAUGHLIN, acting forest supervisor, Kalispell (WU-Am, GN); J. A. Larsen, forest assistant.

Cabinet.—RALPH H. BUSHNELL, forest supervisor, Thompson Falls (WU-Am, N); Claude W. Griffin, deputy forest supervisor.

Custer.—KNOX McANALLY, forest supervisor, Ashland (WU via Crow Agency-Am, N via Forsyth); Edgar F. White, forest assistant.

Deerlodge.—D. T. MASON, forest supervisor, Anaconda (P-Am, N); F. M. Patton, deputy forest supervisor; C. N. Whitney, forest assistant.

Flathead.—PAGE S. BUNKER, forest supervisor, Kalispell (WU-Am, GN); John H. Clack, deputy forest supervisor; J. L. Cobbs, forest assistant.

Gallatin.—D. T. CONKLING, forest supervisor, Bozeman (WU-Am, N).

- Helena.**—J. B. SEELY, forest supervisor, Helena (WU-Am, N); J. D. Warner, deputy forest supervisor; Warren F. Hale, forest assistant.
- Jefferson.**—WALLACE S. PERRINE, forest supervisor, Great Falls (WU-Am, N); Wellman Holbrook, deputy forest supervisor.
- Kootenai.**—DORR SKEELS, forest supervisor, Libby (WU-Am, GN); William A. Raymond, deputy forest supervisor; Webster H. Ransom and William C. Latane, forest assistants.
- Lewis and Clark.**—SCOTT LEAVITT, forest supervisor, Chouteau (WU via Collins-Am, GN via Collins); A. A. Saunders, forest assistant.
- Lolo.**—ELERS KÖCH, forest supervisor, Missoula (WU, P-Am, N); E. C. Clifford and Reuben P. Prichard, forest assistants.
- Madison.**—CLIFTON W. HUDSON, forest supervisor, Sheridan (WU-Am, N); Joseph W. Butler, forest assistant.
- Missoula.**—D. G. KINNEY, forest supervisor, Missoula (WU, P-Am, N); Rutledge Parker, deputy forest supervisor.
- Sioux.**—See South Dakota.

NORTH DAKOTA.

- Dakota.**—C. A. BALLINGER, forest supervisor, Camp Crook, S. Dak. (WU via Bellefourche-Am via Bellefourche).

SOUTH DAKOTA.

- Sioux.**—C. A. BALLINGER, forest supervisor, Camp Crook (WU via Bellefourche-Am via Bellefourche).

WASHINGTON.

- Kaniksu.**—W. N. MILLAR, forest supervisor, Coolin, Idaho (WU via Priest River-Am, GN, Priest River); N. C. Brown, deputy forest supervisor.

DISTRICT 2.

Colorado, Wyoming, South Dakota, Nebraska, and western Kansas. Office, Majestic Building, Denver, Colo.

SMITH RILEY, district forester; T. W. NORCROSS, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). GEORGE E. TROWBRIDGE, assistant to the solicitor, in charge; J. F. LAWSON, assistant to the solicitor.

ACCOUNTS.—H. J. LOVING, district fiscal agent.

OPERATION.—FRED W. MORRELL, assistant district forester.

MAINTENANCE, ALFRED C. ANDERSON.

SILVICULTURE.—S. L. MOORE, assistant district forester.

TIMBER SALES, assistant district forester in Silviculture.

PLANTING, JOHN BENTLEY, jr.

WYOMING.—Supervision of the construction of a mechanical seed-extracting plant for lodgepole pine, on the Medicine Bow National Forest—C. G. Bates, Foxpark.

SILVICS, C. G. BATES.

Study of tree diseases.—Carl Hartley, consulting pathologist, Denver, Colo.

COLORADO.—Examination of silvical sample plots on National Forests—C. G. Bates, Denver.

COLORADO AND WYOMING.—Institution of mensuration studies in connection with reconnaissance on National Forests—J. H. Potts, Denver, Colo.

COLORADO.—Fremont Experiment Station. Continuation and extension of experiments begun in 1910, and institution of new experiments—Wade R. Martin, Manitou.

Wagon Wheel Gap Experiment Station. Streamflow and meteorological measurements, in cooperation with B. C. Kadel, of the Weather Bureau. Institution of silvical experiments and ecological studies.

Changes in method of measuring streamflow, and preparation of type maps for the watersheds—John Murdoch, jr., and G. R. Morrison, Wagon Wheel Gap.

GRAZING.—J. W. NELSON, assistant district forester.

LANDS.—C. J. STAHL, assistant district forester.

PRODUCTS.—H. S. BETTS, assistant district forester.

TIMBER TESTS.—Timber-testing laboratory in cooperation with the University of Colorado, Boulder, Colo.—N. de W. Betts, in charge.

Tests on lodge-pole pine telephone poles cut green and seasoned.

Report on results of tests on small pieces cut from red cedar, lodge-pole pine, and Engelmann spruce telephone poles.

Standard tests on the commercial species found in district 2.

WOOD PRESERVATION.—Inspection of metal mines in Ouray district, southern Colorado, to determine feasibility of treating mine timbers—H. M. Mason, jr., and H. S. Betts.

Installation of cooperative open-tank treating plant at Agricultural College, Fort Collins, Colo.—H. M. Mason, jr.

WOOD UTILIZATION.—Turpentine experiments in Arizona and Colorado—H. S. Betts and H. M. Mason, jr.

Preparation of preliminary report on utilization of dead timber—N. de W. Betts and H. S. Betts.

NATIONAL FORESTS.

COLORADO.

Arapaho.—ARTHUR M. COOK, forest supervisor, Fraser (WU-Ad); Alva A. Simpson, deputy forest supervisor; Arthur T. Upson, forest assistant.

Battlement.—JOHN W. LOWELL, jr., forest supervisor, Collbran (WU-WF, G).

Cochetopa.—EUGENE WILLIAMS, forest supervisor, Saguache (WU-G); Charles P. Bliss, forest assistant.

Colorado.—H. N. WHEELER, forest supervisor, Fort Collins (WU-WF); Harold C. Clark, forest assistant.

Durango.—ERNEST W. SHAW, forest supervisor, Durango (WU-G); John C. De Camp, forest assistant.

Gunnison.—WILLIAM R. KREUTZER, forest supervisor, Gunnison (WU-WF, G); E. C. Berky, deputy forest supervisor; W. H. Mast, forest assistant.

Hayden.—See Wyoming.

- Holy Cross.**—HARRY H. FRENCH, forest supervisor, Glenwood Springs (WU-WF, G); Albert H. Miller, deputy forest supervisor.
- La Sal.**—See Utah, district 4.
- Leadville.**—THEODORE SHOEMAKER, forest supervisor, Leadville (WU, P-WF, G); R. E. Clark, deputy forest supervisor; J. E. Martin, forest assistant.
- Montezuma.**—RESS PHILLIPS, forest supervisor, Mancos (WU-G); Frank B. Notestein, forest assistant.
- Pike.**—C. W. FITZGERALD, forest supervisor, Denver (WU, P-Ad, Am, G, US, WF) George A. Duthie, deputy forest supervisor; W. I. Hutchinson, forest assistant; Monument Nursery—Henry G. Reinsch, forest expert; W. Schrader, forest planting assistant, Monument.
- Rio Grande.**—W. J. MORRILL, forest supervisor, Monte Vista (WU-G); Walter F. Bowers, deputy forest supervisor; Jay Higgins, forest assistant.
- Routt.**—J. H. RATLIFF, forest supervisor, Steamboat Springs (WU-Ad); Ray Peek, deputy forest supervisor; P. J. Paxton, forest assistant.
- San Isabel.**—J. N. LANGWORTHY, forest supervisor, Westcliffe (WU-G); M. B. Willey, deputy forest supervisor; Albin G. Hamel, forest assistant.
- San Juan.**—A. L. SWEITZER, forest supervisor, Pagosa Springs (WU-G); Peter Keplinger, forest assistant.
- Sopris.**—JOHN McLAREN, forest supervisor, Aspen (WU-WF, G).
- Uncompahgre.**—HOWARD S. BUSHNELL, forest supervisor, Delta (WU-G); L. E. Cooper, deputy forest supervisor; J. H. Ramskill, forest assistant.
- White River.**—JAMES A. BLAIR, forest supervisor, Meeker (WU-WF, G); G. P. Bard, deputy forest supervisor; Crosby A. Hoar, forest assistant.

KANSAS.

- Kansas.**—B. R. H. D'ALLEMAND, forest supervisor, Garden City (WU, P-WF); Garden City Nursery.

NEBRASKA.

- Nebraska.**—R. G. PIERCE, acting forest supervisor, Halsey (WU-Ad); Halsey Nursery—C. R. Bechtle, forest planting assistant.

SOUTH DAKOTA.

- Black Hills.**—PAUL D. KELLETER, forest supervisor, Deadwood (WU-Ad, Am); William Wiehe, deputy forest supervisor; Seward D. Smith, forest assistant.
- Harney.**—R. P. IMES, forest supervisor, Custer (WU-Ad); Stephen V. Klem, forest assistant.

WYOMING.

- Bighorn.**—E. N. KAVANAGH, forest supervisor, Sheridan (WU-Ad); Andrew G. Stockwell, deputy forest supervisor; Earl S. Pierce, forest assistant.
- Bonneville.**—H. EARL FRENCH, forest supervisor, Dubois (WU-Am).
- Bridger.**—H. C. HALL, forest supervisor, Pinedale (WU-Am).
- Hayden.**—JAMES BLACKHALL, forest supervisor, Encampment (WU, P-Am); Roy S. Wheeler, forest assistant.

Medicine Bow.—C. M. GRANGER, forest supervisor, Laramie (WU, P-Am); R. A. Stretch, deputy forest supervisor; Leigh J. Young, forest assistant.
Shoshone.—R. W. ALLEN, forest supervisor, Cody (WU-Ad); Fred B. Agee, deputy forest supervisor.
Sundance.—LOUIS KNOWLES, forest supervisor, Sundance (WU-Ad, Am).
Washakie.—C. G. POOLE, forest supervisor, Lander (WU-Am).

DISTRICT 3.

Arizona, Arkansas, Florida, New Mexico, and Oklahoma. Office, Strickler-Luna Building, Albuquerque, N. Mex.

A. C. RINGLAND, district forester.

LAW.—Office of the Solicitor (Forest Service branch). BLAKE FRANKLIN, assistant to the solicitor, in charge; J. O. SETH, assistant to the solicitor.

ACCOUNTS.—J. J. DUFFY, district fiscal agent.

OPERATION.—A. O. WAHA, assistant district forester.

MAINTENANCE.—FRANK E. SCHNEIDER.

SILVICULTURE.—T. S. WOOLSEY, Jr., assistant district forester; A. B. RECKNAGEL, assistant district forester; R. L. ROGERS, forest supervisor, on detail.

FOREST INVESTIGATIONS.—G. A. PEARSON, in charge.

LUMBERING.—NELSON L. LE GRAND, in charge.

WORKING PLANS.—J. H. ALLISON, in charge.

ARIZONA.—Reconnaissance of the Sitgreaves National Forest—T. B. Longwell, in charge.

ARKANSAS.—Market study, check scaling, and examination of proposed timber sales, on the Arkansas National Forest—Athol A. Wynne, lumberman, Hot Springs.

NEW MEXICO.—Reconnaissance of the Gila National Forest—P. P. Pitchlynn, in charge.

Reconnaissance of the Jemez National Forest—George C. Morbeck, in charge.

Reconnaissance of the Carson National Forest—Raymond E. Marsh, in charge.

Fort Valley Experiment Station.—G. A. PEARSON, Flagstaff, Ariz., in charge.

GRAZING.—JOHN KERR, assistant district forester.

ARIZONA.—Reconnaissance of the Coconino National Forest—W. F. Hill, grazing examiner, in charge.

LANDS.—FRANK C. W. POOLER, assistant district forester; A. S. Peck, assistant district forester, special detail.

NATIONAL FORESTS.

ARIZONA.

Apache.—JOHN D. GUTHRIE, forest supervisor, Springerville (WU, P-WF); Frederick Winn, deputy forest supervisor; Clifford W. McKibbin, forest assistant.

Chiricahua.—A. H. ZACHAU, forest supervisor, Portal (WU, P-WF); Otto F. Swenson, forest assistant.

Coconino.—WILLARD M. DRAKE, forest supervisor, Flagstaff (WU, P-WF); J. C. Kircher, deputy forest supervisor; Quincy Randles and Max H. Foerster, forest assistants.

Coronado.—ROBERT J. SELKIRK, forest supervisor, Tucson (WU, P-WF).

Crook.—T. T. SWIFT, forest supervisor, Safford (WU-WF).

Prescott.—C. H. HINDERER, forest supervisor, Prescott (WU-WF); J. C. McNelty, deputy forest supervisor.

Sitgreaves.—HUGH G. CALKINS, forest supervisor, Snowflake (WU, P-WF); Chas. H. Jennings, deputy forest supervisor.

Tonto.—R. G. WILLSON, forest supervisor, Roosevelt (WU-WF).

Tusayan.—STANTON G. SMITH, forest supervisor, Williams (WU, P-WF); Harold Greene, deputy forest supervisor; Gordon T. Backus, forest assistant.

Zuni.—See New Mexico.

ARKANSAS.

Arkansas.—S. A. CHAPPELL, forest supervisor, Hot Springs (WU, P-WF, P); C. J. Heller, forest assistant.

Ozark.—FRANCIS KIEFER, forest supervisor, Harrison (WU-WF); Ralph C. Huey, deputy forest supervisor; L. L. Janes, forest assistant.

FLORIDA.

Florida.—I. F. ELDRIDGE, forest supervisor, Pensacola; W. F. Hill, deputy forest supervisor; P. D. Edmunds, forest agent.

NEW MEXICO.

Alamo.—R. F. BALTHIS, forest supervisor, Cloudcroft (WU, P-WF); Thomas E. McCullough, forest assistant.

Carson.—C. C. HALL, forest supervisor, Tres Piedras (-G); Aldo Leopold, deputy forest supervisor; Ira T. Yarnall, forest assistant.

Chiricahua.—See Arizona.

Datil.—W. H. GODDARD, forest supervisor, Magdalena (WU, P-WF); Robert L. Deering, deputy forest supervisor; H. Basil Wales, forest assistant.

Gila.—DON P. JOHNSTON, forest supervisor, Silver City (WU, P-WF); Ausburn H. Douglas, deputy forest supervisor; Chas. A. Kissam, forest agent; Fort Bayard Nursery—H. C. Turner, forest planting assistant.

Jemez.—FRANK E. ANDREWS, forest supervisor, Santa Fe (WU, P-WF); B. M. Thomas, deputy forest supervisor; Ernest C. Pegg, forest assistant.

Lincoln.—J. A. KINNEY, forest supervisor, Capitan (WU, P-WF).

Manzano.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

Pecos.—THOS. R. STEWART, forest supervisor, Cowles, (WU, P-WF); Charles D. Faunce, forest assistant; Las Gallinas Nursery—H. D. Burrall, forest planting assistant.

Zuni.—W. R. MATTOON, forest supervisor, Albuquerque (WU, P-WF); James F. Mullen, deputy forest supervisor.

OKLAHOMA.

Wichita.—FRANK RUSH, game warden, in charge, Cache (WU-WF).

DISTRICT 4.

Utah, southern Idaho, western Wyoming, eastern and central Nevada, and northwestern Arizona. Forest Service Building, Ogden, Utah.

E. A. SHERMAN, district forester.

LAW.—Office of the Solicitor (Forest Service branch). R. F. FEAGANS, assistant to the solicitor, in charge.

ACCOUNTS.—Q. R. CRAFT, district fiscal agent.

OPERATION.—A. C. MCCAIN, assistant district forester.

MAINTENANCE, FELIX T. MOORE.

BOUNDARIES, R. V. R. REYNOLDS.

SILVICULTURE.—O. M. BUTLER, assistant district forester.

TIMBER SALES, assistant district forester in silviculture.

IDAHO.—Reconnaissance, Targhee National Forest—C. E. Dunston, in charge, St. Anthony.

Volume and yield study of Western yellow pine—E. R. Hodson, forest examiner, Boise.

Reconnaissance, South Fork Snake River, Teton National Forest—D. M. Lang, in charge.

Examination, drivability South Fork Snake River and tributaries, Teton and Wyoming National Forests—D. F. Seery, lumberman.

Reconnaissance, North Fork Payette River, Payette National Forest—Lee O. Miles, forest assistant, in charge, Emmett.

Reconnaissance, North Fork Boise River, Boise National Forest—Dana Parkinson, forest assistant, in charge, Boise.

UTAH.—Reconnaissance, Sevier National Forest—Lincoln Crowell, in charge, Panguitch.

Reconnaissance, La Sal National Forest—S. S. Stewart, in charge, Moab.

Study of growth and yield of aspen, Manti National Forest—F. T. McLean and A. Rosenmond, forest assistants, Ephraim.

PLANTING, J. M. FETHEROLF.

SILVICS, E. R. HODSON.

GRAZING.—HOMER E. FENN, assistant district forester.

LANDS.—T. C. HOYT, assistant district forester.

SUPPLY DEPOT.—A. M. SMITH, property clerk.

PROPERTY AUDIT.—J. G. FALCK, property auditor.

NATIONAL FORESTS.

ARIZONA.

Dixie.—See Utah.

Kaibab.—JAMES L. PELTON, forest supervisor, Kanab, Utah (WU-WF).

IDAHO.

Boise.—E. GRANDJEAN, forest supervisor, Boise (WU-Am); M. S. Benedict, deputy forest supervisor; Dana Parkinson, forest assistant.

Cache.—See Utah.

- Caribou.**—G. G. BENTZ, forest supervisor, Montpelier (WU-Am); Edwin F. McCarty, forest assistant.
- Challis.**—DAVID LAING, forest supervisor, Challis (WU-Am).
- Idaho.**—J. E. ROTHERY, forest supervisor, McCall (WU-P); Hubert C. Williams, forest assistant.
- Lemhi.**—C. I. HUDDLE, forest supervisor, Mackay (WU-Am); S. B. Arthur, deputy forest supervisor; A. L. Brower, forest assistant.
- Minidoka.**—WILLIAM MCCOY, forest supervisor, Oakley (WU-Am).
- Palisade.**—C. L. SMITH, forest supervisor, St. Anthony (WU-Am); James B. Saxton, forest assistant.
- Payette.**—GUY B. MAINS, forest supervisor, Emmett (WU-Am); Frank J. Ryder, deputy forest supervisor; Lee O. Miles, forest assistant.
- Pocatello.**—J. F. BRUNS, forest supervisor, Pocatello (WU-Am); Pocatello Nursery—P. T. Wrensted, forest ranger.
- Salmon.**—JAMES M. RYAN, forest supervisor, Salmon (WU-Am); John A. Pearson, deputy forest supervisor; Irwin W. Cook, forest assistant.
- Sawtooth.**—C. N. WOODS, forest supervisor, Hailey (WU-Am); H. G. McPheters, deputy forest supervisor; Samuel B. Locke, forest assistant.
- Targhee.**—CHESTER B. MORSE, forest supervisor, St. Anthony (WU-Am); Charles A. Beam, deputy forest supervisor; T. W. Stokes, forest assistant.
- Weiser.**—J. B. LAFFERTY, forest supervisor, Weiser (WU-Am); W. M. Campbell, deputy forest supervisor; A. E. Oman, forest assistant.

NEVADA.

- Humboldt.**—C. SYDNEY TREMEWAN, forest supervisor, Elko (WU-WF); Geo. C. Thompson, deputy forest supervisor; Herman Work, forest assistant.
- Moapa.**—THOMAS J. COLLINS, acting forest supervisor, Las Vegas (WU-Am).
- Nevada.**—R. F. MATHIAS, forest supervisor, Ely (WU-WF); Rudolph Dieffenbach, deputy forest supervisor; Robert Rosenbluth, forest assistant.
- Santa Rosa.**—W. W. BLAKESLEE, forest supervisor, Paradise.
- Toiyabe.**—HERBERT GRAFF, forest supervisor, Austin (WU, P-WF).

UTAH.

- Ashley.**—W. M. ANDERSON, forest supervisor, Vernal (WU-WF); Lester E. Hitchcock, forest assistant.
- Cache.**—CLINTON G. SMITH, forest supervisor, Logan (WU-Am); J. C. Humphrey, deputy forest supervisor; E. C. Shepard, forest assistant.
- Dixie.**—JOHN RAPHAEL, forest supervisor, St. George (WU-WF).
- Fillmore.**—WM. HURST, forest supervisor, Beaver (WU-WF).
- Fishlake.**—CARL B. ARENTSON, forest supervisor, Salina (WU-WF); D. M. Lang, deputy forest supervisor; Win. W. Twaddell, jr., forest assistant.
- La Sal.**—HENRY A. BERG, forest supervisor, Moab (WU-WF); C. E. Dunston, deputy forest supervisor.
- Manti.**—A. W. JENSEN, forest supervisor, Ephraim (WU-WF); Ernest Winkler, deputy forest supervisor; F. T. McLean, forest assistant.
- Minidoka.**—See Idaho.

Nebo.—**DAN S. PACK**, forest supervisor, Nephi (WU-WF).

Pocatello.—See Idaho.

Powell.—**GEO. H. BARNEY**, forest supervisor, Escalante (WU-WF).

Sevier.—**O. C. SNOW**, forest supervisor, Panguitch (WU-WF); **Lincoln Crowell**, deputy forest supervisor.

Uinta.—**W. I. PACK**, forest supervisor, Provo (WU-WF); **J. Carl Allred**, deputy forest supervisor; **Nels B. Eckbo**, forest examiner.

Wasatch.—**E. H. CLARKE**, forest supervisor, Salt Lake City (WU, P-Am, WF); **Wasatch Nursery**—**N. J. Fetherolf**, forest planting assistant.

WYOMING.

Ashley.—See Utah.

Caribou.—See Idaho.

Targhee.—See Idaho.

Teton.—**R. E. MILLER**, forest supervisor, Jackson (WU-Am).

Wyoming.—**JAMES E. JEWELL**, forest supervisor, Afton (WU-Am); **L. J. Phelan**, deputy forest supervisor; **John E. Ingram**, forest assistant.

DISTRICT 5.

California and southwestern Nevada. Office, First National Bank Building, San Francisco, Cal.

COERT DUBOIS, acting district forester; **WALTER L. HUBER**, district engineer; **CLARENCE WILEY**, inspector of records.

LAW.—Office of the Solicitor (Forest Service branch). **H. P. DECHANT**, assistant to the solicitor, in charge.

ACCOUNTS.—**F. C. THOMPSON**, district fiscal agent.

OPERATION.—**ROY HEADLEY**, assistant district forester.

MAINTENANCE. **F. H. SMITH**.

SILVICULTURE.—**T. D. WOODBURY**, assistant district forester.

TIMBER SALES, assistant district forester in silviculture.

Reconnaissance on the Plumas National Forest.—**Patrick Kennedy** and **C. H. Ensign**, lumbermen, Quincy, Cal.

Check scaling on Sequoia National Forest.—**J. C. Elliott**, lumberman, Hot Springs, Tulare County, Cal.

SILVICS. **J. A. MITCHELL**, forest assistant.

Study of tree diseases in the California National Forests.—**E. P. Meinecke**, consulting pathologist, Sonora, Cal.

Study of insect-infested timber.—**John M. Miller**, forest ranger, Mineral, Cal.

Study of cut-over areas and silvical experiments in the Sierra National Forest.—

J. A. Mitchell, forest assistant, Northfork, Cal.

GRAZING.—**JOHN H. HATTON**, assistant district forester.

LANDS.—**L. A. BARRETT**, assistant district forester.

PRODUCTS.—**C. STOWELL SMITH**, assistant district forester.

WOOD PRESERVATION.—Experiments to determine the best methods of seasoning *Eucalyptus globulus* poles, logs, and lumber, in cooperation with the estate of Adolph Sutro, the Pacific Land Investment Co., the Mount Tamalpais Cemetery Association, the Parkside Realty Co., and the Pioneer Wood Co.; and *Eucalyptus viminalis* logs, in cooperation with the University of California.—C. Stowell Smith, San Francisco, Cal.

Operation of a portable treating plant in Long and Honey Lake Valleys, Lassen County, Cal.—C. A. Kupfer.

Preservation of posts and poles, in cooperation with the ranchers in Scott Valley, Siskiyou County, Cal.

Experimental treatment of telephone poles for permanent improvement by the "Boucherie" process, Eldorado National Forest.

Preparation of inspection report on telephone poles treated and set, in cooperation with Southern California electric companies.—C. A. Kupfer, San Francisco, Cal.

Experiments to determine the relative resistance to marine wood borers of different species of untreated timber and of Douglas fir treated by various preservatives and coatings.—A. K. Armstrong, San Francisco, Cal.

WOOD UTILIZATION.—Study of the wood-using industries of the State, in cooperation with the State board of forestry.

Study of fence-post, mine-timber, and telephone-pole situation on and adjacent to the Inyo National Forest.—Jas. B. Berry, forest assistant, Bishop, Cal.

Turpentine experiments on the Sierra and Lassen National Forests to determine the yield and cost of operation per unit of area on western yellow, digger, lodgepole, and pricklycone pines.

Construction and operation of experimental kiln for the drying of eucalyptus lumber in cooperation with Mr. F. C. Havens, of Oakland.

NATIONAL FORESTS.

CALIFORNIA.

Angeles.—R. H. CHARLTON, forest supervisor, Los Angeles (WU, P-WF); Ernest B. Long, deputy forest supervisor; J. M. Grant, forest expert, in charge of planting operations; Serope Y. Parnay, forest planting assistant, San Bernardino.

California.—D. P. GODWIN, forest supervisor, Willows (P-WF); A. W. Bartlett, deputy forest supervisor; S. W. Strothman, forest assistant.

Cleveland.—H. A. E. MARSHALL, forest supervisor, San Diego (WU, P-WF); Percy L. Day, deputy forest supervisor.

Eldorado.—EVAN W. KELLEY, forest supervisor, Placerville (WU-WF).

Inyo.—A. H. HOGUE, forest supervisor, Bishop (WU-WF); Jas. B. Berry, forest assistant.

Kern.—W. J. RUSHING, forest supervisor, Bakersfield (WU-WF); Jas. O. Morrow, deputy forest supervisor.

Klamath.—W. B. RIDER, forest supervisor, Yreka (WU-WF); J. R. Hall, deputy forest supervisor; Shirley W. Allen, forest assistant.

Lassen.—L. A. H. KLING, forest supervisor, Red Bluff (P-WF).

Modoc.—C. E. RACHFORD, forest supervisor, Alturas (P-WF); Vernon L. Bonner, deputy forest supervisor; Belknap C. Goldsmith, forest assistant.

Mono.—See Nevada.

Monterey.—RAYMOND TYLER, forest supervisor, Jamesburg, Cal. (WF, Salinas, care Tassajara, Hot Springs stage).

Plumas.—D. N. ROGERS, forest supervisor, Quincy (WU-WF); W. G. Durbin, deputy forest supervisor; R. S. Maddox and George R. Orr, forest assistants.

Santa Barbara.—WILLIS M. SLOSSON, forest supervisor, Santa Barbara (P-WF); H. G. Merrill, deputy forest supervisor; W. H. Moore, forest assistant.

Sequoia.—ALLAN B. PATTERSON, forest supervisor, Hot Springs, Tulare County (WU via Portersville-WF); W. C. Burton, deputy forest supervisor; S. W. Wynee, forest assistant.

Shasta.—R. F. HAMMATT, forest supervisor, Sisson (P-WF); M. R. Tillotson, deputy forest supervisor; Stewart B. Show, forest assistant; F. L. Rickey, planting assistant.

Sierra.—P. G. REDINGTON, forest supervisor, Northfork (WU via Fresno-WF, Friant); M. A. Benedict, deputy forest supervisor; Ernest G. Dudley, forest assistant.

Stanislaus.—R. W. AYRES, forest supervisor, Sonora (WU-WF); J. V. Wulff and Louis T. Larsen, forest assistants.

Tahoe.—R. L. P. BIGELOW, forest supervisor, Nevada City (WU-WF); M. B. Pratt, deputy forest supervisor; Wm. H. Gallaher, forest assistant.

Trinity.—W. A. HUESTIS, forest supervisor, Weaverville (WU-WF); J. D. Coffman, deputy forest supervisor; Ernest V. Jotter, forest assistant.

NEVADA.

Inyo.—See California.

Mono.—WM. M. MAULE, forest supervisor, Gardnerville (WU-WF); T. C. West, deputy forest supervisor; Rex King, forest assistant.

Tahoe.—See California.

DISTRICT 6.

Washington, Oregon, and Alaska. Office, Beck Building, Portland, Oreg.

GEO. H. CECIL, district forester; W. E. HERRING, district engineer.

LAW.—Office of the Solicitor (Forest Service branch). W. F. STALEY, assistant to the solicitor, in charge; D. F. MCGOWAN, assistant to the solicitor.

ACCOUNTS.—A. H. COUSINS, district fiscal agent.

OPERATION.—C. H. FLORY, assistant district forester.

MAINTENANCE, SHIRLEY BUCK.

SILVICULTURE.—F. E. AMES, assistant district forester.

TIMBER SALES, assistant district forester in silviculture.

OREGON.—Examination of proposed sale areas on the Crater National Forest.

Examination of proposed sale areas on the Whitman National Forest.—W. T. Andrews, lumberman, Sumpter.

WASHINGTON.—Scaling on the Snoqualmie National Forest.—Edwin C. Erickson, scaler, Seattle.

PLANTING, J. F. KÜMMEL.

SILVICS, T. T. MUNGER.

GRAZING.—T. P. MACKENZIE, assistant district forester.

LANDS.—C. J. BUCK; assistant district forester; G. F. MEAD, law examiner.

PRODUCTS.—J. B. KNAPP, assistant district forester.

TIMBER TESTS.—Testing laboratory in cooperation with the University of Washington, Seattle, Wash.—O. P. M. Goss, in charge; assistants, C. W. Zimmerman and H. P. Wyckoff.

Strength tests on air-dried western larch.—O. P. M. Goss, Seattle, Wash.

Strength tests on air-dried treated Douglas fir.—O. P. M. Goss, Seattle, Wash.

WOOD PRESERVATION.—Open-tank treating experiments on Douglas fir and western hemlock paving blocks.—O. P. M. Goss, Seattle, Wash.

WOOD UTILIZATION.—Study of commercial processes used in kiln-drying Douglas fir and other northwest woods.—H. B. Oakleaf and C. W. Dunning, Portland, Oreg.

Study of the rate of deterioration and usability of fire-killed timber in district 6.—J. F. Pernot, Portland, Oreg.

Study of the utilization of western red cedar for shingles, siding, and other products.—J. B. Knapp, Portland, Oreg.

Study of the modern sawmill in the Northwest.—H. B. Oakleaf and C. W. Dunning, Portland, Oreg.

NATIONAL FORESTS.

ALASKA.

Chugach.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Thos. M. Hunt, deputy forest supervisor; Bruce Hoffman, forest assistant.

Tongass.—W. G. WEIGLE, forest supervisor, Ketchikan (SC, U. S. A., WU-AP, Am); Max Rothkugel, forest assistant.

CALIFORNIA.

Crater.—See Oregon.

Siskiyou.—See Oregon.

OREGON.

Cascade.—C. R. SEITZ, forest supervisor, Eugene (WU, P-WF); F. B. Kellogg, deputy forest supervisor; B. Frank Heintzleman, forest assistant.

Crater.—M. L. ERICKSON, forest supervisor, Medford (WU, P-WF); S. S. Swenning, deputy forest supervisor; H. D. Foster and William E. White, forest assistants.

Deschutes.—J. ROY HARVEY, forest supervisor, Bend (WU, PT & T-Ad via Opal City, GN via Opal City); B. F. Johnson, deputy forest supervisor; Reginald R. Chaffee, forest assistant.

Fremont.—GILBERT D. BROWN, forest supervisor, Lakeview (WU via Reno, Nev.-WF); Norman G. Jacobson, forest assistant; Nelson J. Billings, grazing assistant.

Malheur.—CY. J. BINGHAM, forest supervisor, John Day (WU via Baker City-Am, WF via Baker City); D. B. Reynolds, deputy forest supervisor; Herbert J. Miles, forest assistant.

- Minam.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); S. A. Brown, deputy forest supervisor.
- Ochoco.**—HOMER ROSS, forest supervisor, Prineville (PT & T-Am); Ephraim Barnes, deputy forest supervisor.
- Oregon.**—T. H. SHERRARD, forest supervisor, Portland (WU, P-Am, WF, N); Ralph S. Shelley, deputy forest supervisor; W. B. Osborne and E. B. Starr, forest assistants.
- Paulina.**—W. W. CRYDER, forest supervisor, Crescent (WU, PT & T-Ad, GN via Opal City).
- Santiam.**—N. F. MACDUFF, forest supervisor, Albany (WU-WF).
- Siskiyou.**—R. L. FROMME, forest supervisor, Grants Pass (WU, P-WF); Allen Hodgson, deputy forest supervisor; H. Haefner, forest assistant.
- Siuslaw.**—A. E. COHOON, forest supervisor, Eugene (WU, P-WF); David E. Fitton, deputy forest supervisor.
- Umatilla.**—HUGH B. RANKIN, forest supervisor, Heppner (WU-Am); George A. Bright, forest assistant.
- Umpqua.**—S. C. BARTRUM, forest supervisor, Roseburg (WU, P-WF); E. H. McDaniels, deputy forest supervisor; Arthur Kerr, forest assistant.
- Wallowa.**—H. W. HARRIS, forest supervisor, Wallowa (WU-Am); Charles Black, grazing assistant; Robie M. Evans, forest assistant.
- Wenaha.**—See Washington.
- Whitman.**—HENRY IRELAND, forest supervisor, Sumpter (WU via Baker City-Am, WF via Baker City); M. L. Merritt deputy forest supervisor; Harold P. Gilkey, forest assistant.

WASHINGTON.

- Chelan.**—G. W. MILHAM, forest supervisor, Chelan (PT & T-Am, GN via Wenatchee); H. M. Coan, forest assistant.
- Columbia.**—H. O. STABLER, forest supervisor, Portland, Oreg. (WU, P-Am, WF, N); W. W. G. Hastings, deputy forest supervisor; A. R. Wilcox, Lage Wernstedt, and E. J. Hanzlik, forest assistants.
- Colville.**—C. C. REID, forest supervisor, Republic (WU, P-Am, GN); F. W. Cleator, deputy forest supervisor; Edward W. Headsten, forest assistant.
- Okanogan.**—H. M. HALE, forest supervisor, Okanogan; V. V. Harpham, deputy forest supervisor.
- Olympic.**—P. S. LOVEJOY, forest supervisor, Olympia (WU-Am, GN, N); A. A. Parker, deputy forest supervisor; William H. Gibbons, forest assistant.
- Rainier.**—G. F. ALLEN, forest supervisor, Tacoma (WU, P-Am, N); P. T. Harris, deputy forest supervisor; E. J. Fenby, forest assistant.
- Snoqualmie.**—B. P. KIRKLAND, forest supervisor, Seattle (WU, P-N, GN, WF) Lewis A. Treen, jr., deputy forest supervisor; Walter H. Leve, forest assistant.
- Washington.**—C. H. PARK, forest supervisor, Bellingham (WU, P-Am, GN, N); F. H. Brundage, deputy forest supervisor; Herman M. Johnson, forest assistant.
- Wenaha.**—J. M. SCHMITZ, forest supervisor, Walla Walla (WU-Am, N).
- Wenatchee.**—A. H. SYLVESTER, forest supervisor, Leavenworth (WU-Am, GN); C. P. Willis forest assistant.

SERVICE CHANGES.

APPOINTED.

GRAZING.—Grazing examiners: Charles E. Fleming, Alfred E. Aldous, Robert R. Hill, and Lynn H. Douglas.

LANDS.—O. C. Merrill and F. H. Fowler, hydroelectrical engineers.

PRODUCTS.—Washington office: Orrington T. H. Swan, engineer in forest products. Laboratory: Engineers in forest products—Arthur L. Heim and Harry D. Tiemann; assistant engineers in forest products—Everett P. Peterson and Harold R. Winter; chemical engineers in forest products—John H. Thickers and Sidney D. Wells; assistant chemical engineer in forest products—Charles S. Gwinn; assistant chemist in forest products—Sydney E. Lunak; scientific assistant in wood utilization—Phillis C. Davis; laboratory assistants—Robert E. Prince and P. Finch; Henry Hanke, laboratory aid and engineer. Wood utilization: John T. Harris, statistician in forest products.

APPALACHIAN.—C. D. Cushing and Ralph C. Bryant, experts. Forest assistants: O. D. Ingall, Dean W. Martin, Richard H. Goode, John H. Fahrenbach, Rowland F. Hemingway, Seward H. Marsh, Sidney H. Thompson.

DISTRICT 1.—Operation: Forest assistants—Whiting Alden, Charles H. Edwards, John F. Forsythe, Howard A. Green, Alfred B. Hastings, Frederick R. Mason, Kenneth D. Swan, James C. Whithan, Waldo D. Barlow, Ernest F. Jones, and Arthur F. Oppel.

DISTRICT 2.—Operation: Forest assistants—Charles E. Beaumont, Pike National Forest; Philip L. Buttrick, Black Hills National Forest; Jay J. Fitz, Harney National Forest; Huber C. Hilton, Bighorn National Forest; Arthur F. C. Hoffman, White River National Forest; Walter A. Hopson, Leadville National Forest; Dwight S. Jeffers, Medicine Bow National Forest; Fred R. Johnson, Arapaho National Forest; George R. Monell, Holy Cross National Forest; George R. Morrison, Rio Grande Experiment Station; George Z. Mason, Battlement National Forest; Gordon Parker, Washakie National Forest; Myron W. Thompson, Shoshone National Forest; Devillo D. Wood, Routt National Forest; Leigh J. Young, Medicine Bow National Forest; H. C. Langston, surveyor, Battlement National Forest. Products: Norman deW. Betts, engineer in forest products.

DISTRICT 3.—Law: Julien O. Seth, assistant to the solicitor, district office. Operation: C. H. Starkweather, jr., expert, district office.

DISTRICT 4.—Operation: Forest assistants—Abraham Rosenmond, Manti National Forest; J. Warrington Stokes, Targhee National Forest; Lee O. Miles, Payette National Forest; Edwin C. Shepard, Cache National Forest; Edwin F. McCarthy, Caribou National Forest.

DISTRICT 5.—District forester: Walter L. Huber, hydroelectrical engineer.

DISTRICT 6.—District forester: Walter W. Clifford, hydraulic engineer; E. A. Braniff, forest supervisor, district office. Operation: H. J. Eberly and W. H. Ellenburg, forest assistants, Okanogan National Forest; Lage Wernstedt, forest assistant, Columbia National Forest; G. R. Hyslop and H. D. Scudder, collaborators, Deschutes National Forest. Lands: Andrew Kennedy, mineral examiner.

RESTORED TO THE ROLLS.

DISTRICT 1.—Operation: Joseph W. Butler, forest assistant, Madison National Forest. Silviculture: Austin Cary, expert, district office.

DISTRICT 3.—Operation: William J. Duppert, forest assistant, Sitgreaves National Forest.

DISTRICT 4.—Operation: Lester E. Hitchcock, forest assistant, Ashley National Forest.

DISTRICT 5.—Clarence Wiley, inspector of records.

DISTRICT 6.—Silviculture: W. T. Andrews, lumberman.

CHANGE IN DESIGNATION.

SILVICULTURE.—William T. Cox, from assistant forester to forest assistant.

APPALACHIAN.—Edward N. Clark, from assistant forest ranger to forest examiner.

DISTRICT 1.—Operation: J. P. Martin, assistant district forester to district engineer (district 4); J. F. Preston, forest supervisor to assistant district forester.

DISTRICT 5.—Operation: M. R. Tillotson, chief of maintenance, district office, to deputy forest supervisor, Shasta National Forest.

DISTRICT 6.—Operation: E. T. Clark, deputy forest supervisor to forest assistant, Snoqualmie National Forest.

TRANSFERRED.

APPALACHIAN.—Robert G. Merritt, forest assistant, from district 6 to Appalachian.

DISTRICT 1.—District forester: W. B. Grealey, from district forester to assistant forester in charge of silviculture, Washington office. Operation: J. P. Martin, from assistant district forester in charge of operation to district engineer, district 4; William G. Weigle, forest supervisor, Coeur d'Alene National Forest, to forest supervisor, Chugach and Tongass National Forest (district 6); Donald R. Brewster, forest assistant, from Sioux National Forest to St. Joe National Forest; A. A. Saunders, forest assistant, from Deerlodge National Forest to Lewis and Clark National Forest. Silviculture: Ovid M. Butler, from assistant district forester in silviculture to assistant district forester, district 4; J. F. Preston, from forest supervisor, Blackfeet National Forest, to assistant district forester in silviculture.

DISTRICT 3.—Law: Ray F. Feagans, assistant to the solicitor, to district 4. Operation: Charles C. Hall, forest supervisor, from Alamo to Carson National Forest; Aldo Leopold, forest assistant, from Apache to Carson National Forest; Ira T. Yarnall, forest assistant, from Chiricahua to Carson National Forest; Arthur D. Read, deputy forest supervisor, from Jemez National Forest to reconnaissance on the Coconino National Forest; Charles D. Faunce, forest assistant, from Jemez to Pecos National Forest. Silviculture: Robert S. Wallace, forest assistant, from Arkansas to Gila National Forest; George C. Morbeck, forest assistant, from Ozark to Pecos National Forest.

DISTRICT 4.—Law: Adolph W. Jensen, from assistant to the solicitor to forest supervisor, Manti National Forest. Operation: Forest supervisors—Daniel S. Pack, Palisade National Forest to Nebo National Forest; Charles L. Smith, Manti National Forest to Palisade National Forest; deputy forest supervisors—Clarence E. Dunston,

La Sal National Forest to Targhee National Forest; Duncan M. Lang, Fishlake National Forest to Teton National Forest. Silviculture: Ovid M. Butler, assistant district forester, from district 1 to district 4; forest assistants—Dana Parkinson, Nebo National Forest to Boise National Forest; Harry B. Maris, La Sal National Forest to Teton National Forest; William W. Twaddell, jr., Fishlake National Forest to Teton National Forest; Nils B. Eckbo, forest agent, Fishlake National Forest to Uinta National Forest. Grazing: George G. Bentz, from assistant district forester to forest supervisor, Caribou National Forest.

DISTRICT 6.—Operation: P. S. Lovejoy, forest supervisor, Medicine Bow National Forest, district 2, to Olympic National Forest, district 6; P. T. Harris, deputy forest supervisor, from Shasta National Forest, district 5, to Rainier National Forest, district 6; R. M. Evans, forest assistant, from Oregon National Forest to Wallowa National Forest; Max Rothkugel, forest assistant, from Oregon National Forest to Whitman National Forest.

PROMOTED IN RANK.

OPERATION.—Franklin W. Reed, from associate district forester, district 4, to forest inspector, Washington.

SILVICULTURE.—William B. Greeley, from district forester, district 1, to assistant forester; Earle H. Clapp, from associate district forester, district 3, to forest inspector.

DISTRICT 1.—District forester: F. A. Silcox, from associate district forester to district forester. Operation: Charles A. Fisher, Clearwater National Forest, from deputy forest supervisor to forest supervisor; Charles F. Howell, from forest ranger to deputy forest supervisor, Pend Oreille National Forest; Edward Holcomb, St. Joe National Forest, from assistant forest ranger to deputy forest supervisor; Thomas C. Spaulding, St. Joe National Forest, from deputy forest supervisor to forest supervisor.

DISTRICT 2.—Operation: Christopher M. Granger, deputy forest supervisor to forest supervisor, Medicine Bow National Forest; Raymond W. Allen, deputy forest supervisor to forest supervisor, Shoshone National Forest; George Philip Bard, forest assistant to deputy forest supervisor, White River National Forest; George A. Duthie, forest assistant to deputy forest supervisor, Pike National Forest; Alva A. Simpson, assistant forest ranger to deputy forest supervisor, Arapaho National Forest; Ray Peck, assistant forest ranger to deputy forest supervisor, Routt National Forest; William Wiehe, assistant forest ranger to deputy forest supervisor, Black Hills National Forest.

DISTRICT 3.—Operation: Russel F. Balthis, from deputy forest supervisor to forest supervisor, Alamo National Forest; Robert L. Rogers, from deputy forest supervisor to forest supervisor, Arkansas National Forest; Aldo Leopold, from forest assistant to deputy forest supervisor, Carson National Forest; Joseph C. Kircher, from forest assistant to deputy forest supervisor, Coconino National Forest; Robert L. Deering, from forest assistant to deputy forest supervisor, Datil National Forest; Don P. Johnston, from deputy forest supervisor to forest supervisor, and Ausburn H. Douglas from forest ranger to deputy forest supervisor, Gila National Forest; Hugh G. Calkins, from deputy forest supervisor to forest supervisor, Sitgreaves National Forest; Harold Greene, from forest ranger to deputy forest supervisor, Tusayan National Forest.

DISTRICT 4.—Operation: Winfred W. Blakeslee, from deputy forest supervisor, Humboldt National Forest, to forest supervisor, Santa Rosa National Forest; Joseph W. Humphrey, from forest ranger, Manti National Forest, to deputy forest supervisor, Cache National Forest; S. B. Arthur, from assistant forest ranger to deputy forest supervisor, Lemhi National Forest.

DISTRICT 5.—Operation: John D. Coffman, from forest assistant to deputy forest supervisor, Trinity National Forest; David P. Godwin, deputy forest supervisor to forest supervisor, California National Forest; F. H. Smith, clerk, stenographer, and typewriter to chief of maintenance.

DISTRICT 6.—Operation: Frank B. Kellogg, forest assistant, Columbia National Forest, to deputy forest supervisor, Cascade National Forest; Lewis A. Treen, jr., assistant forest ranger to deputy forest supervisor, Snoqualmie National Forest; Ephraim Barnes, forest ranger, Whitman National Forest, to deputy forest supervisor, Deschutes National Forest; J. Roy Harvey, deputy forest supervisor, Cascade National Forest, to forest supervisor, Deschutes National Forest; Homer Ross, deputy forest supervisor, Columbia National Forest, to forest supervisor, Ochoco National Forest; Nelson F. MacDuff, deputy forest supervisor, Siskiyou National Forest, to forest supervisor, Cascade National Forest; Hugh B. Rankin, assistant forest ranger, Whitman National Forest, to forest supervisor, Umatilla National Forest; Vernon V. Harpham, forest ranger, Umpqua National Forest, to deputy forest supervisor, Siskiyou National Forest; W. W. G. Hastings, forest assistant, Umpqua National Forest, to deputy forest supervisor, Columbia National Forest; Melvin L. Merritt, forest assistant, to deputy forest supervisor, Snoqualmie National Forest.

LEAVE WITHOUT PAY.

GRAZING.—Will C. Barnes, inspector of grazing.

PRODUCTS.—Laboratory: H. Stanley Bristol, expert.

DISTRICT 2.—Operation: Harry W. Thurston, forest supervisor, Shoshone National Forest; Thomas C. Hatton, deputy forest supervisor, Sopris National Forest; Hartley B. Holyroyd, deputy forest supervisor, Colorado National Forest.

DISTRICT 3.—Henry L. Johnson, forest assistant, Arkansas National Forest; Alexander J. MacKay, forest supervisor, Sitgreaves National Forest.

DISTRICT 4.—Operation: Lawrence J. Phelan, deputy forest supervisor, Wyoming National Forest.

DISTRICT 5.—Louis Margolin, forest examiner.

REINSTATED.

DISTRICT 6.—Operation: John Riis, assistant forest ranger, Cascade National Forest. Transferred from district 4 to district 6.

FURLOUGHED.

DISTRICT 4.—Operation: Robert Rosenbluth, forest assistant, Nevada National Forest.

RESIGNED.

DISTRICT 1.—Operation: Herman E. Fegley, forest assistant, Sioux National Forest.

DISTRICT 2.—Nile Hughel, constructing civil engineer, district office; George W. Hendry, forest assistant, Medicine Bow National Forest.

DISTRICT 4.—Operation: Horace F. Studley, forest supervisor, Nebo National Forest; David Barnett, forest supervisor, Targhee National Forest; John Riis, deputy forest supervisor, Caehe National Forest.

DISTRICT 5.—Grazing: Madison B. Elliott, assistant district forester.

DISTRICT 6.—Operation: Addison S. Ireland, forest supervisor, Deschutes National Forest; Benjamin F. Johnson, deputy forest supervisor, Deschutes National Forest; Robert E. Dickson, forest assistant, Siuslaw National Forest. Silviculture: D. L. McKay, sealer, district office.

APPOINTMENT TERMINATED.

PRODUCTS.—Laboratory: Emile Leasman, chemist in forest products.

DISTRICT 2.—Products: Norman de W. Betts, engineer in timber tests, district office.

DISTRICT 5.—Operation: Ernest Britten, forest supervisor, California National Forest.

DEMOTED.

DISTRICT 6.—Operation: Herbert L. Hurd, deputy forest supervisor to forest ranger, Rainier National Forest; Thomas E. Chidsey, forest supervisor, Umatilla National Forest, to forest ranger, Crater National Forest; S. A. Blankenship, deputy forest supervisor, to assistant forest ranger, Wenatchee National Forest; Delmer S. Rice, deputy forest supervisor, to forest ranger, Wenatchee National Forest.

SUSPENDED.

DISTRICT 4.—Operation: Hubert A. McNamara, forest ranger, Humboldt National Forest.

DISMISSED.

DISTRICT 4.—Operation: Nathan E. Snell, forest supervisor, Caribou National Forest.

DISTRICT 5.—Operation: J. W. Price, forest ranger, Kern National Forest.

DISTRICT 6.—Operation: Floyd M. DuBois, assistant forest ranger, Crater National Forest; Charles V. Oden, forest ranger, Umpqua National Forest.

With deep regret announcement is made of the death of George W. Brotherton, forest ranger, Toiyabe National Forest, May 31, and of Robert H. Miller, deputy forest ranger, Cleveland National Forest, February 27.

SERVICE NOTES FOR JULY.

These notes contain instructions and necessary information for forest officers, and will therefore be carefully read and kept on file for reference.

OFFICE OF THE FORESTER.

Dates of National Forest Code's Becoming Effective—

The regulations and instructions contained in the Grazing and Special Uses sections of the National Forest Code became effective May 1, 1911. The other sections of the Manual will be printed and distributed during the present season, and the regulations and instructions contained will become effective as approved by the Secretary of Agriculture. These regulations and instructions will, as far as possible, be continued in effect without modification or amendment for at least one year. Every effort will be made to avoid frequent changes and the consequent issuance of letters, circulars, and Field Program notes, and as far as consistent with good administration corrections or changes will be made periodically and by means of a general revision of sections of the Manual. Conflicting clauses, errors, omissions, or ambiguous terms may be discovered; and changed conditions may make changes in procedure desirable or imperative, but unless immediate action is required to prevent damage to the National Forests or serious loss or embarrassment to the users of them recommendations for changes in regulations or instructions will be filed for consideration at the time of the next periodic general revision.

The regulations and instructions now in effect are more detailed and definite than any hitherto issued. It is believed that with the experience secured by one year's practical application of them it will be possible to issue a Manual well adapted to every need; one which will set forth clearly every principle and regulation governing the administration of the National Forests and every routine instruction required by the field officers. To this end the cooperation of every forest officer is solicited. Please submit, through the proper channels, any suggestions for changes in the regulations or instructions which your experience shows to be desirable, and call attention to any apparently conflicting instructions, or to any where the meaning is not absolutely clear. All suggestions received will be placed on file and considered at the proper time.

Report of Addresses—

All addresses delivered by members of the Service should be reported to the Forester on Form 129. Failure to do this has caused much inconvenience in the past.

LAW.

OFFICE OF THE SOLICITOR.

Damages and Fine Assessed Against Grazing Trespasser—

In the suit of the United States *v.* Esteban Anduiza, involving grazing trespass on the Weiser National Forest, the defendant has settled by payment of actual damages \$40, punitive damages \$100, costs, amounting to \$12.80. In the suit in equity, involving the same defendant and the same trespass, permanent injunction was granted

some time ago, and this case has now been dismissed through the defendant's payment of the costs, amounting to \$43.65. In a criminal action against the same defendant he was fined a sum of \$50, which he paid, together with costs, amounting to \$3.80.

United States v. Edward Newman, Civil—

Edward Newman grazed and herded sheep in trespass upon the Pocatello National Forest June 6 to 12, 1910. On May, 3, 1911, after due proceedings had, the defendant made a deposit with the United States attorney and offered settlement in the sum of \$175 actual damages and \$100 punitive damages. Such settlement was agreed to by the Forest Service, and the United States attorney for the district of Idaho has been instructed by the Attorney General to accept the amount.

United States v. Manuel Seifert, Criminal—

The defendant was an employee of Edward Newman and grazed and herded sheep in trespass upon the Pocatello National Forest, Idaho, June 6 to 12, 1910. The defendant was arrested on May 3, 1911, and pleaded guilty. The court imposed a fine of \$25.

United States v. James Wallace and Edward Newman, Criminal—

Defendants grazed sheep in trespass upon the Pocatello National Forest, Idaho, June 6 to 12, 1910. They were arrested and on May 3, 1911, pleaded guilty. The court imposed a fine of \$25 upon each.

United States v. Paul Wiedenbohm and Henry Gieschen, Criminal—

The defendants stole from the Big Spring Ranger Station, Targhee National Forest, Idaho, 60 loaded cartridges, Government property. Preliminary hearing was held at St. Anthony, Idaho, April 14, and on May 1 an indictment was returned by the grand jury. Defendants arraigned May 3; pleaded guilty May 4. Court imposed upon each a sentence of 90 days in the Bannock County jail, Idaho.

Law Cases in District 6—

On March 27, 1911, an indictment was returned by the Federal grand jury at Portland, Oreg., against W. S. Dennis for setting fire on the Fremont National Forest. On the following day Dennis appeared before the United States district court, pleaded guilty, and was fined \$25.

April 5, 1911, the Federal grand jury at Spokane, Wash., returned an indictment against J. D. Lyda for setting fire on his squatter claim within the Okanogan National Forest. April 6 defendant appeared before the United States district court, pleaded guilty, and was fined \$58.50 and costs.

The trial of Frank Kirri, who was indicted by the Federal grand jury of Portland, Oreg., March 23, 1911, was held on May 17, 18, and 19, and resulted in conviction on one of the two counts of the indictment. On May 22, Judge Bean sentenced him to 60 days in jail.

On April 18, 1911, the grand jury for Tillamook County, Oreg., returned an indictment against Orley Kellow for setting fire on his own land adjoining the Siuslaw National Forest. The indictment was accompanied by a recommendation of leniency. On April 19 the defendant appeared in court, pleaded guilty, was fined \$25, and the fine remitted.

E. G. Gardner, who was indicted on March 22, 1910, for setting fire on the Siskiyou National Forest, appeared in court June 17 (1911) by attorney and entered a plea of guilty. Sentence was postponed.

On notice from the United States district court that suit had been instituted against him for grazing trespass on the Wallowa National Forest, Frank Pollita forwarded payment in full, amounting to \$111.60 actual damage and \$100 punitive damages.

During the month of April three valuable cameras were stolen from the storeroom in the basement of the Beck Building in which the district office, Portland, Oreg., is located. After a careful investigation of the matter, J. P. Tuley (alias J. P. Harrison) was arrested on the warrant issued at the instance of the chief of maintenance. On June 15 hearing was held before the United States commissioner and the defendant bound over for action by the grand jury. On June 27 defendant admitted the theft, and from information given by him all the cameras have been recovered.

April 15 report was received of the trespass on the Deschutes National Forest of several thousand head of cattle belonging to the Chewaucan Land & Cattle Co., Paisley, Oreg., which cattle were afflicted with scabies. April 18 a restraining order was issued by Judge Wolverton, of the United States district court at Portland, Oreg., to prevent further trespass. As the result of a conference held at the office of the United States attorney on May 30 and 31, between representatives of the company, the United States attorney, representatives of the Bureau of Animal Industry, and assistants to the solicitor, agreement was reached for settlement. As a result the restraining order was modified to permit drifting across a portion of said forest, the trespassers agreeing to pay damage resulting from trespass, amounting to \$232.

On June 9 hearing for the purpose of securing a temporary injunction to prevent the use of water on the Alder Creek Ranger Station was held in the superior court for Okanogan County, resulting in granting of said injunction allowing the use of the water for but 8 out of each 21 days. Steps were immediately taken to file a bill in equity in the United States district court at Spokane, Wash., to prevent interference with the water rights of the United States. The Attorney General has directed immediate proceedings to secure this writ.

Grazing Trespass, Criminal—

In the case of the United States *v.* William McKean and the three herders in his employ—Dennis Cremin, Thomas Broderick, and John Matson—all of the defendants, except Thomas Broderick, pleaded guilty at the May term of court at Deadwood, S. Dak. William McKean was fined \$400 and costs, the herders, Cremin and Matson, being fined \$50 each and costs. The indictment against Thomas Broderick was nol-prossed.

Grazing Trespass, Civil—

In April the Department of Justice was requested to institute civil proceedings against Eugenio Gallegos, of Arboles, Colo., for the recovery of compensatory damages in the sum of \$46, together with punitive damages on account of a trespass committed on the San Juan (E.) National Forest, by approximately 2,300 head of sheep. The case was settled without suit by the defendant paying the United States attorney the sum of \$96.

On May 1 the circuit court of the United States sustained the injunction issued by Judge Lewis, district judge for the district of Colorado, restraining Fred Light from grazing stock on the Holy Cross National Forest without a permit.

The grazing trespass against Daniel Flynn for grazing 400 head of cattle in excess of his permit on the Sopris National Forest, which was referred to the Department of Justice in October, 1910, was settled without suit by the payment by Mr. Flynn of \$87, the amount of the grazing fees for the number of cattle grazed in excess of his permit.

Timber Trespass, Civil—

The case of the United States *v.* John C. Teller and the Union Pacific Railroad Co., involving timber cut from the Medicine Bow National Forest, for which suit was instituted to recover the sum of \$316,000, was settled on a compromise basis by the defendants paying the sum of \$27,440.

The case of the United States *v.* Safe Investment Gold Mining Co., involving a timber trespass on the Black Hills (N.) National Forest, in which suit was instituted to recover \$3,000, was compromised by the defendants paying to the United States the sum of \$1,500.

On January 19, 1911, the Department of Justice was requested to institute suit against the Carbon Timber Co., of Hanna, Wyo., to recover the sum of \$287,397.91 for a trespass committed on the Medicine Bow National Forest. The case is now pending in the office of the United States attorney at Cheyenne, Wyo., on an offer of compromise.

Timber Trespass, Replevin, Injunction—

Suit was instituted in the United States circuit court on June 27 to replevy approximately 300,000 feet of timber and approximately 3,000 ties which had been cut by R. T. Walker from certain lands within the Black Hills (S) National Forest. The land from which this timber was cut had been originally entered by John E. Barnes, and by two separate conveyances reconveyed to the United States under the act of June 4, 1897, allowing lieu selections. One of the above reconveyances pertained only to lot 1 of the entry, and for this lot lieu lands were patented to the entryman. The reconveyance covering the remainder of the entry has not yet been approved nor lieu lands patented therefor. After the above-mentioned reconveyances, and before the approval of the reconveyance of lot 1, patent was issued to John E. Barnes for the entire entry in May of 1903. In 1910 Barnes sold the land embraced in the patent to L. N. Kelly, who in turn sold to R. T. Walker. The timber replevied was cut from all the lands covered by the original entry. Suit was also instituted to enjoin Walker from any further cutting on this quarter section, or removing any of the timber cut, or from operating a sawmill thereon, or from entering upon the land for any purpose.

Injunction to Prevent Trespass on Unclassified Land within Primary Limits of Railroad Grant—

In the case of United States *v.* Milwaukee Lumber Co., pending in the United States Circuit Court for the Northern District of Idaho, a bill was filed asking that the defendant company be enjoined from further cutting or removing timber from unclassi-

fied odd-numbered sections within the primary limits of the Northern Pacific Railway grant, and within the boundaries of the Coeur d'Alene National Forest, until the classification of said sections. The case came on for hearing on May 24, 1911, and the manager of the company appeared and offered to give bond in lieu of a temporary injunction. The court accordingly granted a temporary injunction to take effect 10 days from date, unless, in the meantime, the company filed a satisfactory bond in the sum of \$20,000 to pay the United States the full value of all timber cut from unclassified odd sections within the Coeur d'Alene National Forest, if the same should be found upon classification to be mineral in character.

Sale of Timber by State of Idaho from Unsurveyed School Sections within a National Forest—

United States v. Bonner's Ferry Lumber Co. was an action brought against the defendant company to recover \$2,523.36, the value of timber cut by it in trespass from unsurveyed school sections within the Pend Oreille National Forest, under an attempted sale made by the State of Idaho to the company. Answer was filed by the attorney general of the State of Idaho, on behalf of the company, setting up the school-land grant to the State and the attempted sale to the company, and also denying certain items of damage. The United States demurred to this answer, and subsequently filed an amended demurrer. On December 5, 1910, the court sustained the Government's amended demurrer, (*U. S. v. Bonner's Ferry Lumber Co.*, 184 Fed., 187), and the defendant, with the consent of the court, filed an amended answer, denying practically all the allegations of the complaint. On May 21, 1911, the assistant attorney general for the State of Idaho offered on behalf of the company to compromise the case by the payment of \$2 per thousand for all timber cut in trespass on said sections by the company, and on May 24, 1911, he deposited a certified check for \$2,053.90 with the clerk of the court, which was the total value of the timber on the above basis. The case was continued until the compromise could be submitted to the Attorney General of the United States for his approval. In event that the latter approves, judgment will be entered for the United States for the above amount, without costs.

Law Cases in District 3—

On April 5, 1911, Assistant Forest Rangers Joseph J. Jones and Clinton A. Hodges, of the Datil National Forest, held under bond on a charge of murder, the killing involved having occurred while the forest officers were attempting to arrest one John Latham for violating the stock laws of New Mexico, were released on a writ of habeas corpus, Assistant to the Solicitor R. F. Feagans having assisted the United States attorney in the argument.

The indictment against A. M. Neal, former forest supervisor of the Alamo National Forest, and six other forest officers, charging them with larceny in removing certain trespassing cattle from the Alamo National Forest, such removal having been made pursuant to the orders of the district forester, was disposed of on demurrer, such demurrer being sustained by the district court at Alamogordo, N. Mex., on March 6, 1911.

On April 13, 1911, the grazing trespass case against J. C. Cady, jr., involving lands within the Alamo National Forest, was settled by the payment of \$126.

In the case of the United States *v.* E. E. Jernigan, involving a grazing trespass on the Alamo National Forest, settlement was made on April 3, 1911, by the payment of \$67.50.

On April 13, 1911, a civil action against G. W. Jernigan to recover damages for the unlawful grazing of stock on the Alamo National Forest was settled by the payment of \$990. A permanent injunction, together with judgment for costs of suit, was secured in this case in November, 1910.

On June 23, 1911, the grazing trespass case against R. H. Jernigan, involving lands within the Alamo National Forest, was settled by the payment of \$189.

The case of C. R. and H. E. Robertson, involving a grazing trespass on lands within the Alamo National Forest, was settled on April 3, 1911, by payment of \$126, after the case had been referred to the Department of Justice.

At the May term of the Federal court at Alamogordo, N. Mex., judgment was secured for \$70.50 and costs, also a permanent injunction, in the case of the United States *v.* John Parker, involving a grazing trespass on the Alamo National Forest.

In the case of the United States *v.* A. C. Watson, involving a timber trespass on the Alamo National Forest, a judgment for \$300 and costs was secured at the May term of the Federal court at Alamogordo, N. Mex.

On June 19, 1911, a judgment for \$18 and costs, also a permanent injunction, was secured in the case of the United States *v.* John C. Worthington, involving a grazing trespass on the Alamo National Forest.

At the May term of the Federal court, at Batesville, Ark., a verdict of not guilty was directed by the court in the case of the United States *v.* H. J. Baysinger, involving a fire trespass on the Ozark National Forest, on the ground that the facts did not constitute a case within the statute, the fire having been set on private land and allowed to spread to adjoining public land. The court held that it is necessary in order to constitute an offense that the fire be set on public land.

On May 12, 1911, Henry Cross was tried at Little Rock, Ark., for a fire trespass on the Ozark National Forest and found guilty. A sentence of 60 days in the county jail was imposed.

At the May term of the Federal court, at Alamogordo, N. Mex., the case of the United States *v.* H. C. Herrington, involving a charge of timber trespass and larceny of Government property on the Alamo National Forest, was disposed of by a plea of guilty. Herrington was sentenced to serve 30 days in jail, but the sentence was suspended on condition that he leave the vicinity, such suspension being made in view of the fact that the defendant had already been in jail more than 60 days.

On April 27, 1911, one Osh Kee was tried before a justice of the peace for fire trespass on the Coconino National Forest, found guilty, and fined \$30.

On May 10, 1911, at Pensacola, Fla., the case of the United States *v.* Will Reddick and Will Owens, involving a timber trespass on the Florida National Forest, was disposed of by pl as of guilty, Reddick being sentenced to 60 days and Owens to 30 days, both in the county jail.

In the case of the United States *v.* Policarpio Armijo, being a grazing trespass on the Jemez National Forest, settlement has been made by the payment of \$28.75, the amount demanded by the Government.

In the case of the *United States v. George H. Wilbur*, involving a grazing trespass on the Crook National Forest, settlement has been made by the payment of \$50.03, the amount in full of the Government's demand.

Grazing Trespass: Constitutionality of National Forests Organic and Administrative Acts—

On May 1, 1911, the Supreme Court of the United States handed down decisions in the cases of *United States v. Fred Light*, and *United States v. Grimaud*, Carajous and Inda, in all of which the court sustained the constitutionality of that part of the act of June 4, 1897 (30 Stat., 11), which authorizes the Secretary of Agriculture to make such rules and regulations and establish such service as will insure the objects of the National Forests, for the violation of which regulations the act prescribes a punishment.

The case of *United States v. Fred Light* was an action by the United States to restrain Light from pasturing stock upon the Holy Cross National Forest, Colo., without a permit from the Secretary of Agriculture. Light defended on the ground that the laws of Colorado make it indispensable to the maintenance of such an action that the owner of land must fence it against trespassing stock, and that the act of June 4, 1897, is unconstitutional because it delegates legislative authority to the Secretary of Agriculture to make and define a crime, and that the act of March 3, 1891, authorizing the President to set aside public lands as National Forests, is also unconstitutional and can not authorize the creation of forests without the consent of the State in which the lands are situated. The substance of the decision of the Supreme Court is as follows:

1. The United States can prohibit absolutely or fix the terms on which its property may be used and can withhold or reserve the land indefinitely, and this, without the consent of the State in which it is situated.

2. The long-continued sufferance by the United States of the pasturing of cattle on the public lands did not confer upon anyone a vested right to the use of those lands for that purpose; nor could it deprive the United States of the power of recalling the implied license arising therefrom so to do.

3. The Government has, with respect to its own lands, the rights of an ordinary proprietor to maintain its possession and prosecute trespassers, and it may deal with such lands precisely as an ordinary individual may deal with his farming property. (*United States v. Canfield*, 167 U. S., 524.)

4. Section 24 of the act of March 3, 1891, authorizing the President of the United States to set apart and reserve public lands bearing forests as national forests, is constitutional.

5. The act of June 4, 1897, conferring upon the Secretary of Agriculture authority to make rules and regulations for the administration of the national forests, is constitutional, and the regulations of the Secretary of Agriculture, made and promulgated thereunder, requiring all persons to secure permits before grazing any stock in a national forest, is valid and enforceable. (*United States v. Grimaud*, decided same day.)

6. Statutes providing that no recovery can be had for damages done by trespassing animals unless the land had been inclosed with a fence of the size and material required by State law do not give permission to the owner of cattle to use another's unfenced land as a pasture, and, therefore, if the statute of Colorado requiring owners to fence their land against straying stock is at all enforceable against the United States such a statute does not afford immunity to one who intentionally and willfully pastures and allows his stock to graze in the national forests.

The cases of *United States v. Grimaud*, *Carajous*, and *Inda*, consolidated for consideration by the Supreme Court, were criminal prosecutions for pasturing stock on the Sierra National Forest, Cal., in violation of the regulations of the Secretary of Agriculture, which required all persons to secure a permit before grazing stock on a forest reserve. The defendants demurred to the indictments on the ground that the act of June 4, 1897, is unconstitutional in that it attempts to delegate to the Secretary of Agriculture legislative power. The district court sustained the demurrers and the United States prosecuted a writ of error direct to the Supreme Court. The substance of the decision is as follows:

1. The act of June 4, 1897 (30 Stat., 11), authorizing the Secretary of Agriculture to make such rules and regulations and establish such service as will insure the objects of the national forests, namely, to regulate their occupancy and use and to preserve the forests thereon from destruction, and prescribing punishment for any violation of such rules and regulations, does not confer upon the Secretary of Agriculture legislative power, but merely authorizes him to exercise administrative functions in the management of the national forests, which, because of the various and varying details of such management, can not be provided in general regulations enacted by Congress, and the act is constitutional.

2. The authority to make administrative rules is not a delegation of legislative power, nor are such rules raised from an administrative to a legislative character because the violation thereof is punishable as a public offense.

3. Although there is no act of Congress which in express terms declares that it shall be unlawful to graze sheep on a national forest, and although the act of June 4, 1897, provides that nothing therein shall prohibit any person from entering such reservations for all proper and lawful purposes, such entry and use of the reserves is subject to the proviso, also contained in the act, that such persons comply with the rules and regulations covering such reservations; and as the act, not the Secretary of Agriculture, makes it an offense to violate such regulations, the grazing of sheep on the reservations without complying with the regulations of the Secretary of Agriculture, which require that a permit be obtained before grazing sheep on the reservations, is unlawful and an indictable offense.

4. The regulation promulgated by the Secretary of Agriculture on June 12, 1906, providing that "all persons must secure permits before grazing any stock in a forest reserve, except the few head in actual use by prospectors, campers, and travelers, and milch or work animals, not exceeding a total of six head, owned by bona fide settlers residing in or near a forest reserve, which are excepted and require no permit," is valid and enforceable, and a person who drives and grazes sheep upon a national forest in violation of such regulations is making unlawful use of the Government property and renders himself liable to the penalty imposed by Congress.

5. The Secretary of Agriculture has the power to impose a charge for the privilege of grazing on the national forests. In addition to the general power conferred by the act of June 4, 1897, the act of February 1, 1905, which declares "that all money received from the sale of any products or the use of any land or resources of said forest reserves shall be covered into the Treasury of the United States and for a period of five years from the passage of this act shall constitute a special fund available, until expended, as the Secretary of Agriculture may direct, for the protection, administration, improvement, and extension of Federal forest reserves," and also subsequent acts providing that money received from any source of forest-reserve revenue shall be covered into the Treasury, and a part thereof turned over to the States and Territories in which the national forests are located, to be expended for public schools and roads, clearly indicate that Congress intended that the Secretary of Agriculture might make charges out of which a revenue from forest reserves was expected to arise.

ACCOUNTS.

Meals and Lodging—

The Chief of the Division of Accounts holds that all expenses for meals and lodging must be included in reimbursement accounts supported by proper receipts as provided in the fiscal regulation, paragraph 14, but will waive this requirement in extreme cases of emergency affecting the public business or causing delay of important work. In such cases Form A vouchers may be used when accompanied by a statement of facts. If such statement does not show that such emergency existed, vouchers will be returned and payment required by the officer incurring the expense.

OPERATION.

Changes in Procedure—

PREPARATION OF WRITTEN PROCLAMATION AND EXECUTIVE ORDERS.—The written portion of the proclamation as well as Executive orders will be prepared in the Washington office. Secretary letters and press notice should be submitted by the district forester as heretofore. (See *OB* circular letter to district foresters, May 4.)

INTER-FOREST BOUNDARY LINES; INNER MARGIN OF BLACK LINE.—Greater care in the placing of inter-forest boundary lines on proclamation tracings is enjoined. Often such lines do not match up on the various tracings and considerable extra work on tracings and negatives becomes necessary in the Washington office as a consequence. It is believed this could well be avoided if proper attention were given to this point in the preparation of the tracings by the districts.

The inner margin of the black line should be considered the exterior limit of the forest area on inter-forest boundary lines as well as on exterior lines. These instructions supersede all previous conflicting instructions on this point. (See *OB* circular letter, May 23.)

DISTINCTION BETWEEN "BOUNDARY" AND "GEOGRAPHY" CASE DESIGNATION.—In order to avoid confusion it is desired that a closer distinction be drawn with reference to the case designation on correspondence pertaining to "boundary" and "geography" subjects. Letters pertaining to surveys, topographic corrections, compilations, projections, and kindred subjects should bear the key initial of "geography." (Circular letter to district foresters, May 26.)

LAND DISTRICTS SHOULD BE GIVEN WITH RECOMMENDATIONS FOR WITHDRAWAL OR RELEASE.—In accordance with a request from the Commissioner of the General Land Office to the Forester under date of June 23, diagrams accompanying recommendations for withdrawal of land for forest purposes or for release from such withdrawal should show the proper land district in which such lands are located. If no diagrams accompany the recommendations, the Secretary's letter should contain the information. (See *OB* circular letter to district foresters, June 24.)

SPECIAL EXCEPTION CLAUSE PERTAINING TO ELIMINATIONS—

Under date of May 3 the Forester was informed by the Assistant Commissioner of the General Land Office that the Secretary of the Interior had directed that before submitting to the department recommendations involving eliminations from National Forests or releases from temporary withdrawals, the Commissioner of the General

Land Office secure a report from the Geological Survey as to the power possibilities of the lands recommended for elimination or release, and as to the value for coal of such of said lands as had not been reported upon.

In order to avoid the delay which such action would necessarily cause in the issuance of Proclamations it was subsequently agreed to insert the following exception clause in all future proclamations involving eliminations from National Forests:

The lands herein eliminated from the ——— National Forest are hereby withdrawn for classification under the act of June 25, 1910 (36 Stat., 847), and will when compatible with public interests, be restored to settlement and entry under the laws applicable thereto on such date as shall be fixed by the Secretary of the Interior and after such notice as he may deem advisable.

GRAZING.

Discontinuance of "Agreement Supplemental to Grazing Application, Form 631"—

In connection with the forthcoming edition of the Trespass section of the National Forest Manual, the attention of all forest officers is invited to the fact that the use of the "Agreement supplemental to grazing application," Form 631, has been discontinued. All supplies of this form now on hand should be destroyed. The Solicitor of the Department of Agriculture has held that the use of this form is not essential to safeguard the Government against damage by trespass, and that the requirement of its execution by applicants is unnecessary.

Ranch Property Purchased with Stock—

Amendments have been made in the last paragraph on page 47 and the first paragraph on page 48 of the Grazing section of the National Forest Manual as follows:

When both the stock and ranches are purchased, *if the ranch property is commensurate and used in connection with the stock*, a renewal may be allowed the purchaser with any reduction that would have been made in the original permit.

If, after the transaction, *which includes a transfer of ranch property commensurate and used in connection with the stock*, the purchaser possesses all the qualifications of the original permittee, he should be allowed the same privileges if the number of stock does not exceed the maximum limit. If he does not, the privilege should be reduced accordingly.

LANDS.

Occupancy: Error in National Forest Manual—

The first word in line 4, page 14, of the Special Uses section of the Manual should be "without" instead of "with." The instructions should agree with Regulations L-35.

Occupancy: Inclosures—

The policy set forth in the last paragraph on page 16 of the Special Uses section of the Manual is applicable to pastures and other inclosures as well as to drift fences.

Water Power, Amendment of Regulation L-4—

The Secretary of Agriculture has authorized the amendment of Regulation L-4, so that it shall read as follows:

No final water-power permit shall be issued if the works to be constructed thereunder will in any way physically interfere with works operated or constructed or to be constructed under a final water-power permit, nor will a final water-power permit be issued for the construction of works within an area covered by a prior preliminary permit until after the filing of final application or the loss of priority by the prior preliminary permittee. Successive preliminary permits may be issued covering the same water-power site, but in each successive preliminary permit it shall be specified that such permit is subordinate to any prior permit or permits still in effect and shall not deprive any prior preliminary permittee of his prior right to obtain a final permit.

The obvious purpose of this amendment is to allow the issuance of successive preliminary water-power permits covering the same site.

SERVICE PUBLICATIONS ISSUED.

- Bulletin 84.—Preservative Treatment of Poles.
- Bulletin 87.—Eucalypts in Florida.
- Bulletin 88.—Properties and Uses of Douglas Fir.
- Bulletin 89.—Olympic National Forest: Its Resources and Their Management.
- Bulletin 92.—Light in Relation to Tree Growth.
- Bulletin 93.—The Aspens.
- Bulletin 95.—Uses of Commercial Woods of the United States. I. Cedars, Cypressess. and Sequoias.
- Circular 175.—Growth and Management of Douglas Fir in the Pacific Northwest.
- Circular 177.—Wooden and Fiber Boxes.
- Circular 184.—Fustic Wood: Its Substitutes and Adulterants.
- National Forest Manual.—Grazing.
- National Forest Manual.—Special Uses.
- Use Book—Water Power.
- Unnumbered Circular.—Information Regarding Employment on the National Forests (Fifth Revision).
- Unnumbered Circular.—Suggestions for the Collection of Range Plant Specimens. (Revised.)

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